



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL RESEARCH LABORATORY
ATHENS, GEORGIA 30605

September 28, 1981

36883
RECEIVED
GREAT SWAMP N

OCT-8 1981

REVIEW return to Jack

Mr. Thomas McFadden
United States Department of the Interior
Fish and Wildlife Service
Great Swamp National Wildlife Refuge
R.D. 1, Box 152
Basking Ridge, New Jersey 07920-9616

Ref. Mgr. 1	<i>JK</i>
Ref. Mgr. 2	<i>JK</i>
Ref. Mgr. 3	<i>JK</i>
Ref. Mgr. 4	<i>JK</i>
O.S.P.	
Admin. Serv.	<i>JK</i>
Mon. 1	
Mon. 2	
Mon. 3	
Bio. Tech.	

Dear Mr. McFadden:

At your request we have carried out asbestos analyses on the 12 water samples that we received from you on August 31, 1981. The samples were prepared and examined in the transmission mode of a JEOL 100C Electron Microscope as outlined in the EPA Interim Method for Asbestos in Water. Each fiber was subjected to selected area electron diffraction to aid in identification.

Results: Three of the five pond water samples contained statistically significant amounts of chrysotile asbestos fibers. The asbestos fiber concentration in each of the seven drinking water samples was below the detection level (~ 0.1 million fibers per liter). All results are summarized in Table 1. The asbestos fiber concentrations of samples #2 and #3 are expressed as 95% confidence intervals. An estimated lower limit is reported for sample #1 because the sample was too heavily loaded with asbestos fibers to obtain an accurate fiber count.

Sincerely,

JM Long

J. M. Long
Analytical Chemistry Branch

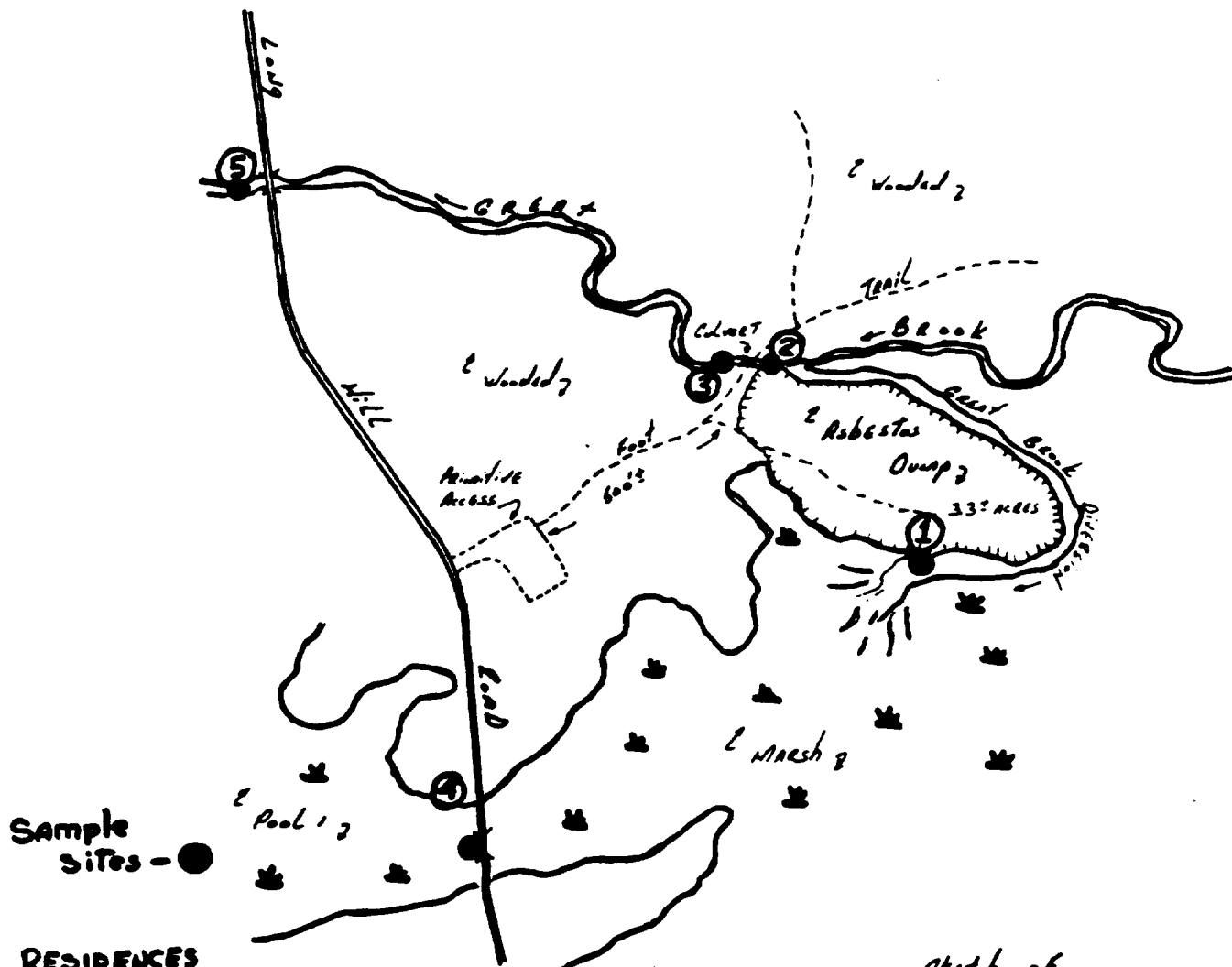
Enclosure

ASB 001 0414

Table 1. Analysis of Water Samples

<u>Sample Number and Description</u>	<u>Concentration of Chrysotile Asbestos, MFL (million fibers per liter) 95% Confidence Intervals</u>
#1- Pond Water	>3400
#2- Pond Water	23 \pm 7
#3- Pond Water	5 \pm 3
#4- Pond Water	BDL*
#5- Pond Water	BDL
#6- Drinking Water	BDL
#7- Drinking Water	BDL
#8- Drinking Water	BDL
#9- Drinking Water	BDL
#10- Drinking Water	BDL
#11- Drinking Water	BDL
#12- Drinking Water	BDL

*Below detection level



Sample
sites - ●

RESIDENCES

#6	Q-205
#7	HQTRS
#8	Q-234
#9	Q-91
#10	Q-7
#11	Q-189
#12	Q-1

Sketch of
Asbestos Dump
at
Primitive Access Parking Lot
Great Swamp Nat. Wildlife Refuge
Marion County, New Jersey